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11/07/00

PATENT

Express Mail No.: EL608223889US

JC821 U.S. PTO  
09/707616  
11/07/00

## REQUEST FORM FOR FILING A PATENT APPLICATION UNDER 37 CFR 1.53(b)(1)

DOCKET NUMBER	ANTICIPATED CLASSIFICATION OF THIS APPLICATION		PRIOR APPLICATION EXAMINER	ART UNIT
A02.134	CLASS 381	SUBCLASS		2747

Address to:

Assistant Commissioner for Patents  
Washington, DC 20231

This is a request for filing a ☐ continuation-in-part, ☐ continuation, ☒ divisional application under 37 CFR 1.53(b)(1) of prior application number 09/452,904, filed on December 1, 1999, entitled DIGITAL WIRELESS LOUDSPEAKER SYSTEM, by the following inventor(s):

FULL NAME OF INVENTOR	FAMILY NAME Lindemann	FIRST GIVEN NAME Eric	SECOND GIVEN NAME
RESIDENCE AND CITIZENSHIP	CITY Boulder	STATE OR COUNTRY Colorado	CITIZENSHIP U.S.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 2975 18th Street	CITY Boulder	STATE & ZIP CODE/COUNTRY Colorado 80304
FULL NAME OF INVENTOR	FAMILY NAME Melanson	FIRST GIVEN NAME John	SECOND GIVEN NAME Laurence
RESIDENCE AND CITIZENSHIP	CITY Austin	STATE OR COUNTRY Texas	CITIZENSHIP U.S.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 2001 South Mopac #122	CITY Austin	STATE & ZIP CODE/COUNTRY Texas 78746

[X] Additional inventors are being named on page 3 of this Request Form.

1. ☐ Enclosed is a copy of the latest inventor-signed prior application, including a copy of the oath or declaration showing the original signature or an indication it was signed. I hereby verify that the papers are a true copy of the latest signed prior application number 09/081,474, and further that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

(REQUEST FORM FOR FILING A PATENT APPLICATION UNDER 37 CFR 1.53(b)(1), PAGE 2)

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	85 - 20 =	65	x \$18 =	\$ 1,170
	INDEPENDENT CLAIMS	5- 3 =	2	X \$80 =	\$ 160
	MULTIPLE DEPENDENT CLAIMS (if applicable)			X \$135	\$
				BASIC FEE	\$ 710
				TOTAL	\$ 2,040

2. ☐ A verified statement to establish small entity status under 37 CFR 1.9 and 1.27  
☐ is enclosed  
☐ was filed in the prior application and such status is still proper and desired
3. ☒ The Commissioner is hereby authorized to charge fees under 37 CFR 1.16 and 1.17 which may be required, or credit any overpayment to Deposit Account 02-0725. A duplicate copy of this form is enclosed.
4. ☒ A check in the amount of \$2,040 is enclosed.
5. ☐ Cancel in this application original claims \_\_\_\_\_ of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
6. ☐ The inventor(s) of the invention being claimed in this application is (are):  
\_\_\_\_\_ was not listed as an inventor in the prior application (no. \_\_\_\_\_), but has been added to this application under 35 USC 120. Applicant has enclosed new formal paperwork to account for this addition.
7. ☐ This application is being filed by less than all the inventors named in the prior application. In accordance with 37 CFR 1.60(b), the Commissioner is requested to delete the name(s) of the following person or persons who are not inventors of the invention being claimed in this application:
8. ☒ Amend the specification by inserting before the first line the sentence:  
This application is a ☐ continuation-in-part, ☐ continuation, ☒ division of application number 09/452,904, filed December 1, 1999.
9. ☐ New formal drawings are enclosed.
10. ☐ Priority of foreign application number \_\_\_\_\_, filed on \_\_\_\_\_, in (country) \_\_\_\_\_ is claimed under 35 USC 119 (a)-(d).  
☐ The certified copy has been filed in prior application number \_\_\_\_\_, filed \_\_\_\_\_.
11. ☒ A preliminary amendment is enclosed.
12. ☒ The prior application is assigned of record to AudioLogic, Incorporated, a body corporate of the state of Colorado, having a place of business at 2465 Central Avenue, Suite 100, Boulder, Colorado 80301.
13. ☐ Also enclosed: N/A

(REQUEST FORM FOR FILING A PATENT APPLICATION UNDER 37 CFR 1.53(b)(1), PAGE 3)

14. [X] The power of attorney in the prior application is to Jennifer L. Bales, Reg. No. 38,070, Jean M. Macheledt, Reg. No. 33,956, and Kristine H. Johnson, Reg. No. 36,835, having an office at Mountain View Plaza, 1520 Euclid Circle, Lafayette, Colorado 80026-1250.

- a. [X] The power of attorney appears in the original papers in the prior application.  
b. [ ] Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.  
c. [X] Address all future correspondence to:

Jennifer L. Bales  
Macheledt Bales & Johnson LLP  
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1520 Euclid Circle  
Lafayette, Colorado 80026-1250  
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Phone: (303) 664-4734  
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15. [X] Additional inventors are listed below:

FULL NAME OF INVENTOR	FAMILY NAME Carlson	FIRST GIVEN NAME Jason	SECOND GIVEN NAME Lee
RESIDENCE AND CITIZENSHIP	CITY Austin	STATE OR COUNTRY Texas	CITIZENSHIP U.S.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 10721 Highway 71 West	CITY Austin	STATE & ZIP CODE/COUNTRY Texas 78735
FULL NAME OF INVENTOR	FAMILY NAME Kates	FIRST GIVEN NAME James	SECOND GIVEN NAME Mitchell
RESIDENCE AND CITIZENSHIP	CITY Niwot	STATE OR COUNTRY Colorado	CITIZENSHIP U.S.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 6796 Audobon Avenue	CITY Niwot	STATE & ZIP CODE/COUNTRY Colorado 80503

16. [X] Please note that since the parent application was filed in 1998, the following persons have moved locations: the assignee, AudioLogic, Incorporated; the attorney of record, Jennifer L. Bales; and two inventors, namely, John Laurence Melanson and Jason Lee Carlson. This Request Form for Filing a Patent includes the current information for the above-listed persons.

November 6, 2000  
Date

Jennifer L. Bales  
Jennifer L. Bales, Reg. No. 38, 070  
Attorney of Record

PATENT  
Express Mail No.: EL608223889US  
Case Docket No.: A02.134

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor(s): Eric Lindemann et al. : October 26, 2000  
Serial No.: Divisional of 09/452,904 :  
Filed: CPA Request filed herewith :  
For: DIGITAL WIRELESS LOUDSPEAKER SYSTEM :

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Please amend the above-identified patent application as follows:

**IN THE SPECIFICATION:**

Above the Background, insert --This is a divisional application of co-pending U.S. Application  
Serial No. 09/452,904, filed on December 1, 1999.--

**IN THE CLAIMS:**

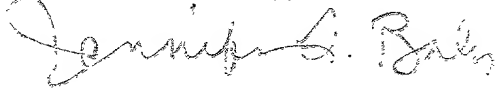
Enclosed are claims 1-85 for the above-referenced divisional application.

**REMARKS**

Claims are enclosed for examination in the above-referenced divisional application. Applicant respectfully requests that the application be allowed to issue as soon as possible. The Examiner is welcome to contact the undersigned if this will clarify any issues or otherwise advance the prosecution of this application.

Respectfully submitted,  
Eric Lindemann et al.

By



Jennifer L. Bales  
Registration No. 38,070  
Telephone (303) 664-4734  
Facsimile (303) 664-4735

## CLAIMS

1. A transmission device for use in digital wireless loudspeaker system, the transmission device comprising:
  - means for receiving input digital audio data,
  - means for generating RF transmission data based upon the input digital audio data and including frame markers appearing at fixed intervals in the RF transmission data, and
  - means for transmitting an RF signal based upon the RF transmission data.
2. The transmission device of claim 1, further including:
  - means for obtaining an audio sample clock synchronized to the input digital audio data; and
  - means for generating an RF transmission clock based upon the audio sample clock;wherein the means for transmitting an RF signal transmits the RF signal based upon the transmission data and the transmission clock.
3. The transmission device of claim 2, wherein the means for obtaining an audio sample clock comprises means for receiving a discrete input audio sample clock associated with the input audio data.
4. The transmission device of claim 2, wherein the means for obtaining an audio sample clock comprises means for deriving the audio sample clock from the input audio data.
5. The transmission device of claim 1, wherein the RF signal is

transmitted continuously as a real time data stream.

6. The transmission device of claim 1, wherein the RF signal includes status data.

7. The transmission device of claim 6, wherein the status data includes a control signal for activating a wireless speaker.

8. The transmission device of claim 6, wherein the status data includes a control signal for controlling volume of sound broadcast at a wireless speaker.

9. The transmission device of claim 1, wherein the RF signal includes two channels of audio data.

10. The transmission device of claim 9, wherein the means for transmitting transmits two RF signals at two different RF frequencies, each RF signal based upon one of the transmission data audio channels.

11. The transmission device of claim 9, further including means for multiplexing the two channels of audio transmission data onto the same RF transmission channel prior to transmission.

12. The transmission device of claim 9, wherein the RF signal further includes a channel of status data.

13. The transmission device of claim 1, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.

14. The transmission device of claim 13, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

15. The transmission device of claim 13, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

16. The transmission device of claim 1, further including a digital audio encoder for compressing the input digital audio data.

17. The transmission device of claim 16, wherein the encoder is a perceptual audio encoder.

18. A transmission device for use in digital wireless loudspeaker system, the transmission device comprising:

means for receiving input digital audio data;

means for obtaining an audio sample clock synchronized to the input digital audio data;

means for generating RF transmission data based upon the input digital audio data;

means for generating an RF transmission clock based upon the audio sample clock; and

means for transmitting an RF signal based upon the transmission data and the transmission clock.

19. The transmission device of claim 18, wherein the means for obtaining an audio sample clock comprises means for receiving a discrete input audio sample clock associated with the input audio data.

20. The transmission device of claim 18, wherein the means for obtaining an audio sample clock comprises means for deriving the audio sample clock from the input audio data.

21. The transmission device of claim 18, wherein the RF signal includes frame markers appearing at fixed intervals in the RF transmission data.

22. The transmission device of claim 21, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.



23. The transmission device of claim 21, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

24. The transmission device of claim 21, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

25. The transmission device of claim 18, wherein the RF signal is transmitted continuously as a real time data stream.

26. The transmission device of claim 18, wherein the RF signal includes status data.

27. The transmission device of claim 26, wherein the status data includes a control signal for activating a wireless speaker.

28. The transmission device of claim 26, wherein the status data includes a control signal for controlling volume of sound broadcast at a wireless speaker.

29. The transmission device of claim 18, wherein the RF signal includes two channels of audio data.

30. The transmission device of claim 29, wherein the means for transmitting transmits two RF signals at two different RF frequencies, each RF signal based upon one of the transmission data audio channels.

31. The transmission device of claim 29, further including means for multiplexing the two channels of audio transmission onto the same RF transmission channel data prior to transmission.

32. The transmission device of claim 29, wherein the RF signal further includes a channel of status data.

33. The transmission device of claim 18, further including a digital audio encoder for compressing the input digital audio data.

34. The transmission device of claim 33, wherein the encoder is a perceptual audio encoder.

35. A transmission device for use in digital wireless loudspeaker system, the transmission device comprising:

means for receiving digital audio data streams from two discrete sources;

5 means for selecting one of the data streams as input digital audio data;

means for generating RF transmission data based upon the input digital audio data; and

10 means for transmitting an RF signal based upon the transmission data.

36. The transmission device of claim 35, wherein one of the discrete sources is an audio CD player, and the other discrete source is a DVD player.

37. The transmission device of claim 35, wherein the RF signal includes status data.

38. The transmission device of claim 37, wherein the status data includes a control signal for activating the wireless speaker.

39. The transmission device of claim 37, wherein the status data includes a control signal for controlling volume of the broadcast sound.

40. The transmission device of claim 35, further including:  
means for obtaining an audio sample clock synchronized to the  
input digital audio data; and  
means for generating an RF transmission clock based upon the  
5 audio sample clock;

wherein the means for transmitting an RF signal transmits the RF signal based upon the transmission data and the transmission clock.

41. The transmission device of claim 40, wherein the means for obtaining an audio sample clock comprises means for receiving a discrete input audio sample clock associated with the input audio data.

42. The transmission device of claim 40, wherein the means for obtaining an audio sample clock comprises means for deriving the audio sample clock from the input audio data.

43. The transmission device of claim 35, wherein the RF signal includes frame markers appearing at fixed intervals in the RF transmission data.

44. The transmission device of claim 43, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.

45. The transmission device of claim 44, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

46. The transmission device of claim 44, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

47. The transmission device of claim 35, wherein the RF signal is

transmitted continuously as a real time data stream.

48. The transmission device of claim 35, wherein the RF signal includes two channels of audio data.

49. The transmission device of claim 48, wherein the means for transmitting transmits two RF signals at two different RF frequencies, each RF signal based upon one of the transmission data audio channels.

50. The transmission device of claim 48, further including means for multiplexing the two channels of audio transmission onto the same RF transmission channel data prior to transmission.

51. The transmission device of claim 48, wherein the RF signal further includes a channel of status data.

52. The transmission device of claim 35, further including a digital audio encoder for compressing the input digital audio data.

53. The transmission device of claim 52, wherein the encoder is a perceptual audio encoder.

54. A transmission device for use in digital wireless loudspeaker system, the transmission device comprising:

means for receiving input digital audio data,

means for generating RF transmission data based upon the input

5 digital audio data and further including status data, and

means for transmitting an RF signal based upon the RF

transmission data.

55. The transmission device of claim 54, wherein the status data includes a control signal for activating a wireless speaker.

56. The transmission device of claim 54, wherein the status data includes a control signal for controlling volume of sound broadcast at a wireless speaker.

57. The transmission device of claim 54, further including:

means for obtaining an audio sample clock synchronized to the input digital audio data; and

means for generating an RF transmission clock based upon the audio sample clock;

wherein the means for transmitting an RF signal transmits the RF signal based upon the transmission data and the transmission clock.

58. The transmission device of claim 57, wherein the means for obtaining an audio sample clock comprises means for receiving a discrete input audio sample clock associated with the input audio data.

59. The transmission device of claim 57, wherein the means for

obtaining an audio sample clock comprises means for deriving the audio sample clock from the input audio data.

60. The transmission device of claim 54, wherein the RF signal is transmitted continuously as a real time data stream.

61. The transmission device of claim 54, wherein the RF signal includes two channels of audio data.

62. The transmission device of claim 61, wherein the means for transmitting transmits two RF signals at two different RF frequencies, each RF signal based upon one of the transmission data audio channels.

63. The transmission device of claim 61, further including means for multiplexing the two channels of audio transmission data onto the same RF transmission channel and the status data prior to transmission.

64. The transmission device of claim 54, wherein the RF signal includes frame markers appearing at fixed intervals in the RF transmission data.

65. The transmission device of claim 64, wherein the input digital audio data comprises digital audio samples in the form of a digital audio bit-stream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least one audio data sample.

66. The transmission device of claim 65, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

67. The transmission device of claim 65, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

68. The transmission device of claim 54, further including a digital audio encoder for compressing the input digital audio data.

69. The transmission device of claim 68, wherein the encoder is a perceptual audio encoder.



70. A transmission device for use in digital wireless loudspeaker system, the transmission device comprising:

means for receiving input digital audio data,  
a digital audio encoder for compressing the input digital audio data;

means for generating RF transmission data based upon the compressed input digital audio data; and

means for transmitting an RF signal based upon the RF transmission data.

71. The transmission device of claim 70, wherein the encoder is a perceptual audio encoder.

72. The transmission device of claim 70, further including:

means for generating an audio sample clock synchronized to the compressed data; and

means for generating an RF transmission clock based upon the audio sample clock;

wherein the means for transmitting an RF signal transmits the RF signal based upon the transmission data and the transmission clock.

73. The transmission device of claim 72, wherein the means for generating an audio sample clock comprises means for receiving a discrete input audio clock associated with the input audio data and means for deriving the audio sample clock from the input audio clock.

74. The transmission device of claim 72, wherein the means for

generating an audio sample clock comprises means for deriving the audio sample clock from the compressed data.

75. The transmission device of claim 70, wherein the RF signal is transmitted continuously as a real time data stream.

76. The transmission device of claim 70, wherein the RF signal includes two channels of audio data.

77. The transmission device of claim 76, wherein the means for transmitting transmits two RF signals at two different RF frequencies, each RF signal based upon one of the transmission data audio channels.

78. The transmission device of claim 76, further including means for multiplexing the two channels of audio transmission data onto the same RF transmission channel prior to transmission.

79. The transmission device of claim 70, wherein the encoder further includes means for dividing the compressed data into frames, and means for generating frame markers synchronized to the frames.

80. The transmission device of claim 79, wherein the compressed data comprises digital audio samples in the form of a digital audio bitstream, and wherein the frame markers are positioned within the bitstream with a temporal accuracy of at least compressed data sample.

81. The transmission device of claim 80, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of an audio data bit from said bit-stream.

82. The transmission device of claim 80, wherein the frame markers are positioned within the bitstream with a temporal accuracy at least on the order of one clock period of the RF transmission clock.

83. The transmission device of claim 70, wherein the RF signal includes status data.

84. The transmission device of claim 83, wherein the status data includes a control signal for activating the wireless speaker.

85. The transmission device of claim 83, wherein the status data includes a control signal for controlling volume of the broadcast sound.

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FULL NAME OF INVENTOR	FAMILY NAME Lindemann	FIRST GIVEN NAME Eric	SECOND GIVEN NAME
RESIDENCE AND CITIZENSHIP	CITY Boulder	STATE OR COUNTRY Colorado	CITIZENSHIP U.S.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 2975 18th Street	CITY Boulder	STATE & ZIP CODE/COUNTRY Colorado 80304
FULL NAME OF INVENTOR	FAMILY NAME Melanson	FIRST GIVEN NAME John	SECOND GIVEN NAME Laurence
RESIDENCE AND CITIZENSHIP	CITY Austin	STATE OR COUNTRY Texas	CITIZENSHIP U.S.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 2001 South Mopac #122	CITY Austin	STATE & ZIP CODE/COUNTRY Texas 78746

☒ Additional inventors are being named on page 3 of this Request Form.

1. ☐ Enclosed is a copy of the latest inventor-signed prior application, including a copy of the oath or declaration showing the original signature or an indication it was signed. I hereby verify that the papers are a true copy of the latest signed prior application number 09/081,474, and further that all statements made herein of my own knowledge are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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4. ☒ A check in the amount of \$2,040 is enclosed.
5. ☐ Cancel in this application original claims \_\_\_\_\_ of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
6. ☐ The inventor(s) of the invention being claimed in this application is (are):  
\_\_\_\_\_ was not listed as an inventor in the prior application (no. \_\_\_\_\_), but has been added to this application under 35 USC 120. Applicant has enclosed new formal paperwork to account for this addition.
7. ☐ This application is being filed by less than all the inventors named in the prior application. In accordance with 37 CFR 1.60(b), the Commissioner is requested to delete the name(s) of the following person or persons who are not inventors of the invention being claimed in this application:
8. ☒ Amend the specification by inserting before the first line the sentence:  
This application is a ☐ continuation-in-part, ☐ continuation, ☒ division of application number 09/452,904, filed December 1, 1999.
9. ☐ New formal drawings are enclosed.
10. ☐ Priority of foreign application number \_\_\_\_\_, filed on \_\_\_\_\_, in (country) \_\_\_\_\_ is claimed under 35 USC 119 (a)-(d).  
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a. [X] The power of attorney appears in the original papers in the prior application.

b. [ ] Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.

c. [X] Address all future correspondence to:

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Macheledt Bales & Johnson LLP  
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Lafayette, Colorado 80026-1250  
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15. [X] Additional inventors are listed below:

FULL NAME OF INVENTOR	FAMILY NAME Carlson	FIRST GIVEN NAME Jason	SECOND GIVEN NAME Lee
RESIDENCE AND CITIZENSHIP	CITY Austin	STATE OR COUNTRY Texas	CITIZENSHIP U.S.
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FULL NAME OF INVENTOR	FAMILY NAME Kates	FIRST GIVEN NAME James	SECOND GIVEN NAME Mitchell
RESIDENCE AND CITIZENSHIP	CITY Niwot	STATE OR COUNTRY Colorado	CITIZENSHIP U.S.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 6796 Audobon Avenue	CITY Niwot	STATE & ZIP CODE/COUNTRY Colorado 80503

16. [X] Please note that since the parent application was filed in 1998, the following persons have moved locations: the assignee, AudioLogic, Incorporated; the attorney of record, Jennifer L. Bales; and two inventors, namely, John Laurence Melanson and Jason Lee Carlson. This Request Form for Filing a Patent includes the current information for the above-listed persons.

November 6, 2000  
Date

Jennifer L. Bales  
Jennifer L. Bales, Reg. No. 38, 070  
Attorney of Record